

α -Glucosidase-IN-15

Chemical Properties

CAS No. :

Formula: C₂₄H₂₄N₂S

Molecular Weight: 372.53

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	α -Glucosidase-IN-15 (Compound 14B) exhibits potent α -glucosidase inhibitory activity with an IC ₅₀ value of 3.34 μ M and possesses antidiabetic properties [1].
Targets(IC50)	Others,Glucosidase,glycosidase
In vivo	α -Glucosidase-IN-15 (Compound 14B), administered orally at 10 and 20 mg/kg body weight for 4 weeks, demonstrated anti-diabetic effects in Streptozotocin-induced diabetic male Wistar albino rats (170-200 g), reducing blood glucose levels and mitigating weight loss. A single oral dose also significantly lowered serum glucose levels post-glucose challenge (3 g/kg). No mortality occurred in mice at 2000mg/kg over 2 weeks, suggesting a favorable safety profile. The compound additionally exhibited antihyperlipidemic activity, significantly reducing serum biomarkers linked to Streptozotocin-induced diabetes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6843 mL	13.4217 mL	26.8435 mL
5 mM	0.5369 mL	2.6843 mL	5.3687 mL
10 mM	0.2684 mL	1.3422 mL	2.6843 mL
50 mM	0.0537 mL	0.2684 mL	0.5369 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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